

# Ubaid Ur Rehman

Backend Engineer | Legacy Modernization & FinTech Systems

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## PROFESSIONAL SUMMARY

Backend Engineer with 5+ years modernizing regulated enterprise systems across FinTech, digital banking, pharmaceutical, and automotive ERP domains. Deep, hands-on expertise bridging legacy Rocket UniVerse/Pick Basic core databases with modern .NET architectures — a rare combination most backend engineers on either side of that divide don't have. Direct experience with back-office financial workflows including ledger reconciliation and transaction discrepancy resolution (\$10k+ resolved). Strong foundation in CQRS, DDD, and SOLID, with a track record of driving architectural decisions on mission-critical systems.

## TECHNICAL SKILLS

**Legacy Systems & Modernization:** Rocket UniVerse, Pick Basic, Legacy-to-.NET Integration, Strangler Fig / Anti-Corruption Layer patterns

**Backend & Server Architecture:** C#, .NET 6/10, ASP.NET Core MVC, Web API, Node.js, RESTful API Design, SOLID, Domain-Driven Design (DDD)

**Databases & Data Modeling:** PostgreSQL, SQL Server, Oracle, MongoDB, Entity Framework Core, Dapper

**Cloud, DevOps & Containerization:** Microsoft Azure, Docker, Jenkins, CI/CD pipelines, Site Reliability Engineering (SRE)

**Messaging & Performance:** Redis, RabbitMQ, CQRS, High-Performance Caching

**Testing & Version Control:** Jest, NUnit, Selenium, Playwright, SpecFlow, SIT/UAT Methodologies, Git, Azure DevOps, Jira, SVN

## WORK EXPERIENCE

### FullStack Software Developer

Contour Software | IDS

May 2025 – Present

Karachi, Pakistan (Remote)

- Bridge legacy Rocket UniVerse/Pick Basic core databases with modern .NET and RESTful APIs — designing and maintaining the integration layer connecting a decades-old dealership ERP to modern services and mobile apps.
- Contributing to the team's migration from .NET 6 to .NET 10 across the core ERP platform.
- Support back-office financial workflows — ledger reconciliation and deposit/payment/refund processing — contributing improvements and technical recommendations alongside the core accounting team.
- Design modular RESTful APIs using SOLID principles and Domain-Driven Design (DDD), supporting team-wide modernization efforts for seamless service swapping.
- Establish production reliability and observability for mission-critical back-office systems using Jenkins CI/CD pipelines and SonarQube.
- Author SOPs and Technical Specifications for the Accounting Module as part of internal R&D documentation.

### Software Developer

Numbers Pvt Ltd | Swich

Jan 2025 – Apr 2025

Karachi, Pakistan

- Designed and implemented microservices-based server-side solutions for a leading FinTech gateway using .NET 6 & 8, engineering high-performance caching and messaging layers with Redis and RabbitMQ.
- Optimized database structures via CQRS and dedicated read databases, reducing core dashboard load times from over 60 seconds to under 10 seconds.
- Investigated and reconciled missing/mismatched transactions across the payment pipeline, resolving \$100k+ in discrepancies via automated log analysis and reporting.
- Integrated third-party systems via robust APIs for secure account registration and financial transactions, including Easypaisa Retail cash-in/cash-out.
- Applied Site Reliability Engineering (SRE) practices, serving as L3 support to troubleshoot live database queries and maintain observability.

## Software Engineer

Reboot Technologies | Trafix LLC

Jul 2024 – Dec 2024

Karachi, Pakistan

- Developed complex features for Trafix OMS, ensuring high performance and data integrity for a globally redundant trading platform.
- Refactored existing code to migrate the application from .NET Framework 4.8 to .NET 8, resolving breaking changes to guarantee core stability for globally active clients.
- Engineered advanced permission logic and mapping to adhere strictly to financial security standards.
- Executed rigorous System Integration Testing (SIT) and Unit Testing to ensure zero-downtime software releases.

## Software Engineer

Avanza Solutions

Aug 2023 – Jun 2024

Karachi, Pakistan

- Engineered secure backend features and complex stored procedures for digital banking platforms, ensuring seamless collaboration with stakeholders for reliable deployment procedures.
- Executed a massive customer data migration, ensuring 100% data integrity and security with zero downtime.
- Collaborated closely with bank clients to establish highly reliable deployment procedures, ensuring effective release management and continuous business continuity for critical banking platforms.
- Developed critical backend services for a Bank CRM upgrade, including Windows services for automated Eform updates and complex stored procedures.

## Technical Consultant

Contour Software | POMS Corporation

Nov 2021 – Jul 2023

Karachi, Pakistan

- Engineered C#-based logic and complex data reports for an MES-based ERP tailored for highly regulated pharmaceutical manufacturing.
- Collaborated seamlessly with distributed international client teams to deliver production deployments and technical training.

## Co-Founder & Software Developer

Sentore-Tech

Jul 2020 – Oct 2021

Karachi, Pakistan

- Delivered scalable back-end solutions, architecting robust batch processing pipelines that successfully handled 10,000+ concurrent API validations with automated logic.
- Developed database structures and server architecture for custom web and desktop applications using SQL Server and .NET.
- Developed full-featured Inventory and POS systems utilizing the .NET Framework and SQL Server, integrating barcode scanning, multi-branch synchronization, and automated stock alerts.

## Visiting Faculty (Software Engineering) – Part-time

Mohammad Ali Jinnah University

Sep 2022 – Feb 2026

Karachi, Pakistan

- Facilitated technical interviews and deep-dive code evaluations for software engineering cohorts, mitigating bias and delivering objective feedback on algorithms, problem-solving, and clean code practices.
- Instructed core technical courses including Software Architecture and Web Engineering, assessing fundamental engineering concepts, data modeling, and architectural patterns.

## CERTIFICATION & EDUCATION

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**Certification | Azure Developer Associate (AZ-204)**

Microsoft

Oct 2025

**Degree | Master of Science in Software Engineering**

Mohammad Ali Jinnah University, Karachi, Pakistan

June 2024

**Certification | Project Management Certificate**

Google

Nov 2023

**Degree | Bachelor of Science in Software Engineering**

Mohammad Ali Jinnah University, Karachi, Pakistan

Feb 2022